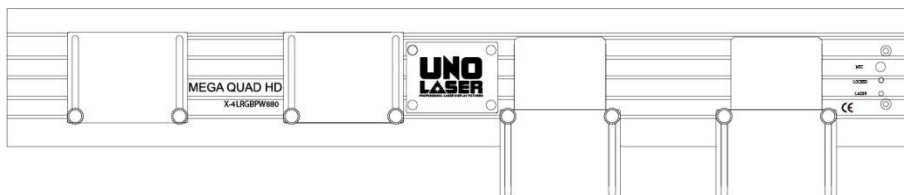




MEGA QUAD HD X-4LRGBPW880



LASER LIGHT FIXTURE – CLASS 4



LASER LIGHT

AVOID EYE OR SKIN EXPOSURE TO DIRECT OR SCATTERED LIGHT
CLASS 4 LASER PRODUCT
CLASSIFIED PER EN/IEC 60825-1 2007

UNO LASERS FIXTURES ARE APPROVED FOR SAFE USE IN USA!

**THIS DEVICE COMPLIES WITH PERFORMANCE STANDARDS FOR LASER
PRODUCTS UNDER 21 CFR 1040 EXCEPT
WITH RESPECT TO THOSE CHARACTERISTICS AUTHORIZED BY
VARIANCE NUMBER: "2013-V-0607"**

USER INFORMATION

This manual contains important laser operation information. Read and understand all instructions prior to powering on laser unit the first time, to avoid laser eye injury and to avoid breaking the law. Keep this manual in a safe place for future reference.

WARNING DATA

Lasers can be hazardous and have unique safety considerations. Permanent eye injury and blindness is possible if lasers are used incorrectly. Pay close attention to each safety REMARK and WARNING statement in the user manual. Read all instructions carefully BEFORE operating this device.

NON-INTERLOCKED HOUSING WARNING

This unit contains high power lasers internally. Do not open the laser housing, due to potential exposure to unsafe levels of laser radiation. The laser power levels accessible if the unit is open can cause instant blindness, burn skin, and cause fires.

VARIANCE

A "Laser Light Show Variance" is the permit required from FDA for operating UNO Lasers in a public forum & outlined in details under FDA guidelines for Laser Display Show. If you are producing a show with laser light effects, not having a show variance could lead to large fines if your show gets inspected by FDA officials.

Visit our website to **apply for your FREE Laser show variance**

<http://variance.ProXdirect.com>

WARRANTY

1 Year Laser Diodes & Scanner **2 Years** General Parts

Life Time Clean & Calibrate Each Uno Laser system will be cleaned and re-calibrated at no extra cost each year for the life of the unit. (Shipping not included)

Please register your new purchase with us for your warranty with Uno Laser within 30 days of your purchase.

<http://warranty.ProXdirect.com>

SAFETY NOTES



LASER RADIATION WARNING / SAFETY

- Please note there is high potential for eye and skin injury if strict adherence to these guidelines is not followed.
- These Class 3B and Class 4 demonstration laser products are only to be purchased and used by organizations which already hold a valid Class 3B or Class 4 US laser light show variance.
- Do not point laser or allow laser light to be directed or reflected toward other people or reflect objects.
- Laser is never to be operated if the unit is defective or the cover or seal is damaged.
- Direct or scattered light can be hazards to eyes and skin.
- INDOOR USE ONLY. Outdoor laser shows must notify FAA



USER ACCESSIBILITY / MAINTAINANCE

- Do not modify the unit or remove protective covers or housing.
- No scheduled maintenance is necessary to keep this product in compliance.
- Unit must be returned to factory for any required service or repair.
- Service is only to be handled by authorized factory trained technicians. There are no user serviceable parts, etc.

Unpacking Instructions

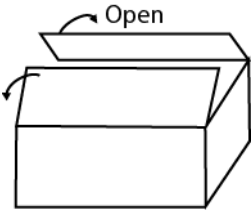
CAUTION!

Immediately upon receiving a fixture, carefully unpack the carton, check the contents to ensure that all parts are present, and have been received in good condition. Notify the shipper immediately and retain packing material for inspection if any parts appear damage from shipping or the package itself shows signs of mishandling. Save the package and all packing materials. In the event that a fixture must be returned to the factor, it is important that the fixture be returned in the original factory box packing.

What is included?

The carton or flight case contain following items:

Name	QTY
Laser Light	1PC
KEYS (for key switch)	2 PCS
Power Cord	1 PC
USER MANUAL	1 PC



IMPORTANT

For your own safely and full laser safety Regulation, we do strongly recommend you to take this optional switch!



Power Supply

To determine the power requirements for a particular fixture, see the label affixed to the back plate of the fixture or refer to the fixture's specifications chart. A fixture's listed current rating is its average current draw under normal conditions.



All fixtures must be powered directly off a switched circuit and cannot be run off a rheostat (variable resistor) or dimmer circuit, even if the rheostat or dimmer channel is used solely for a 0% to 100% switch. Before applying power to a fixture, check that the source voltage matches the fixture's requirement.

LASER INFORMATION



This Laser Product is designated as Class 4 during all procedures of operation.

LASER EMISSION DATA

Laser Classification	Class 4
Green Laser	532nm
Red Laser	635nm
Blue Laser	450nm
Beam Diameter	<5mm at aperture
Divergence(each beam)	<2 mrad
Divergence(total light)	<90 degrees
Transverse Beam Mode	TEM
Cooling	Fan Cooling

*As measured under IEC measurement conditions for classification.

LASER INFORMATION

Laser Power:

Total		880mw	Beam Divergence	Diameter (mm)
Red	2pcs	150mw 650nm	< 2 mrad	< 5mm
Green		80mw 532nm	< 2 mrad	< 3mm
Blue		500mw 450nm	< 0.5 mrad	< 5mm

Scanner: N1.8 high precision stepper motor

X/Y Axis Beam Angle: $\pm 50^{\circ}$

SPECIFICATIONS

Main Input: AC100~240V, 50/60Hz

Fuse: 250VAC/2A Slow (20mm Glass)

Power Consumption: 50W

Control Mode: Auto, Sound, DMX, Master / Slave

Laser Classification: Class 4

Laser Safety Standard: EN/IEC 60825-1 2007

Condition Temperature: 10 ~40⁰C

DMX Connections: 3 pins XLR Male/Female

DMX Channels: 12 channels

Measurement: L=cm, W=cm, H=cm

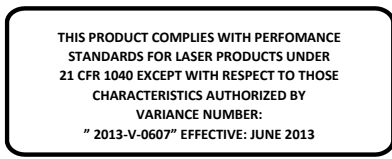
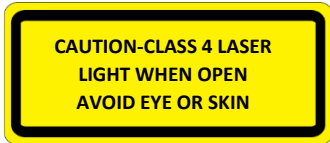
N Weight: 5Kg / 11lbs

All information provided is subject to change without notice.

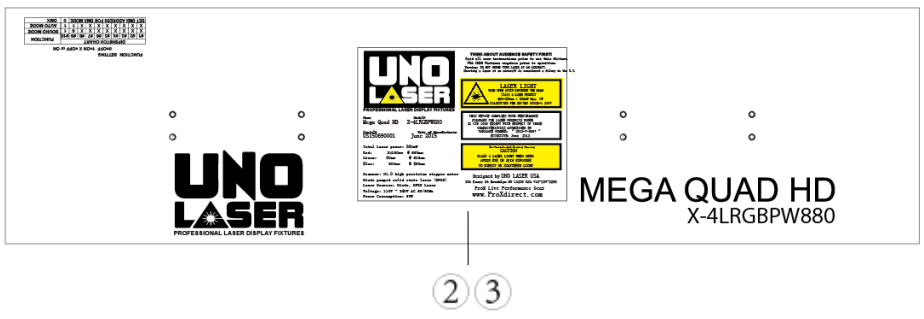
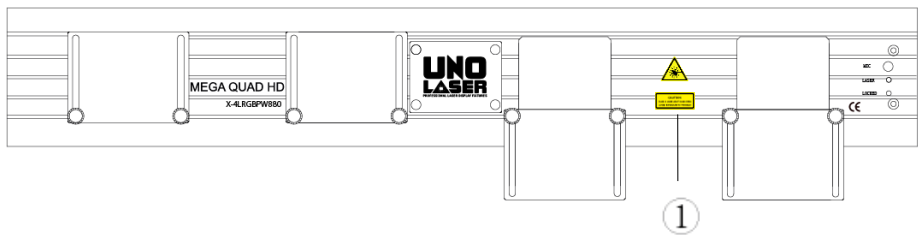


Safety Label location

As FDA/CDRH required under Laser Compliance Regulations, here you will find a diagram that outlines the radiation warning labels and where you will find them located on the unit itself.



- 1. APERTURE OPENING WARNING AT FRONT OF UNIT
- 2. CERTIFICATION LABEL
- 3. MANUFACTURER'S ID



PROPER USE/MINIMUM HEIGHT



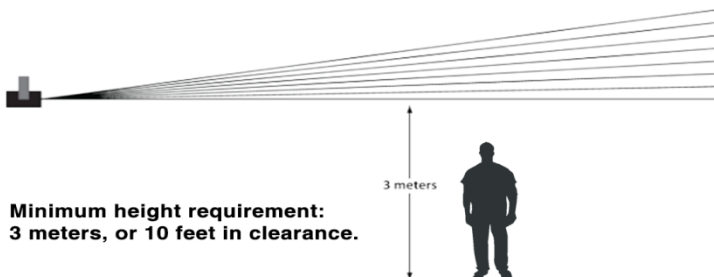
CAUTION! - USE OF CONTROLS OR ADJUSTMENTS, OR PERFORMANCE OF PROCEDURES OTHER THAN THOSE SPECIFIED HEREIN MAY RESULT IN HAZARDOUS RADIATION EXPOSURE.

This product is for overhead mounting only.

For safety purposes, UNO LASER, ProX and Xstatic Pro Lighting recommend mounting lighting effect products on steady elevated platforms or sturdy overhead using suitable hanging clamps. In all cases, use safety cables.

Obtain appropriate mounting hardware from your lighting vendor.

International laser safety regulations require that laser products must be operated in the fashion illustrated below, with a minimum of 3 meters (9.8 ft) of vertical separation between the floor and the lowest laser light. Additionally, 3 meters of horizontal separation is required between laser light and audience or other public spaces.



Do not point laser or allow laser light to be directed or reflected toward other people or reflective objects.



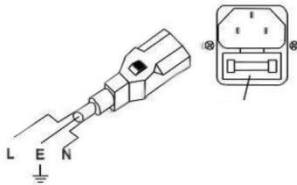
LASER VARIANCE REQUIREMENT!

These Class 3B and Class 4 demonstration laser Products are only to be purchased and used by organizations which already hold a valid Class 3B or Class 4 US laser light show variance

Visit our website to **apply for your FREE Laser show variance**
<http://variance.ProXdirect.com>


The unit is supplied with a power plug appropriate to its voltage and destination. Should any other connections be required they must be carried out with the following configuration.

L =Brown
E =Green/Yellow
N= Blue



FUSE 5mmx20mm

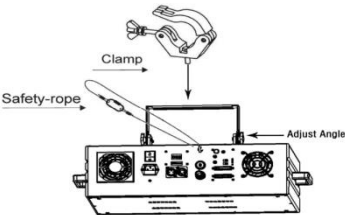
FUSEF 1.6A/250VAC

Cable (EU)	Cable(US)	Pin	International
Brown	Black	Live	L
Light blue	White	Neutral	N
Yellow/Green	Green	Earth	

Proper Laser Set Up & Usage

- This fixture has been designed to be hung. It is recommended for safety purposes, your lighting effect are properly mounted using a suitable hanging clamp and make sure the area below the installation place is free unwanted persons during rigging, re-rigging and servicing.
- The operator has to make sure that safety-relating and machine-technical installations are approved by an expert before taking into operation for the first time and after changes before taking into operation another time.
- The operator has to make sure that safety-relating and machine-technical installations are approved by a skilled persons cannot reach
- The fixture should be installed in the position where persons cannot reach and where persons may walk by or be seated.

CAUTION! When installing the device, make sure there is no highly - inflammable material (decoration articles, etc.) within a distance of min. 0.5m / 20inches

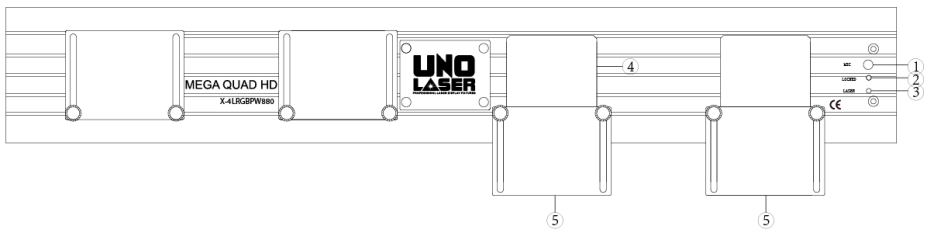


PRODUCT OVERVIEW

This device has left our premises in absolutely perfect condition. In order to maintain this condition and to ensure safe operation, it is necessary for the user to follow the safety instructions and warning notes written in this manual.

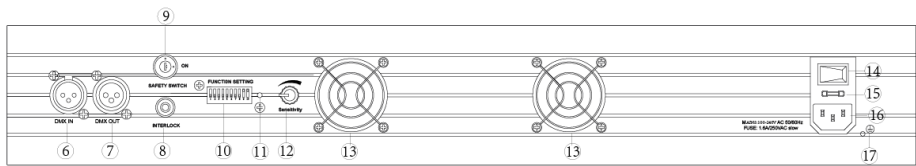
The manufacturer will not accept liability for any resulting damages caused by the non-observance of this manual or any unauthorized modification to the device.

Front Panel



NO.	NAME	FUNCTION
1	MIC Sync LED	Synchronize to detect music signal.
2	LOCKED LED	When the Safety Key is off, the LED indicate show Red color.
3	Laser Indicator LED	When the Laser show out, the LED indicator show blue color.
4	APERTURE	Laser output aperture.
5	Beam Blocker	Sliding laser beam blocker used for audience safety.

Rear Panel



NO	NAME	FUNCTION
6	DMX IN	XLR-3PIN Ports, for DMX in
7	DMX OUT	XLR-3PIN Ports, for DMX out
8	INTERLOCK	Attaches Emergency Stop box.
9	SAFETY SWITCH	Control the laser show out Key
10	DIP SWITCH	Mode Selection(Auto, Sound, DMX/Slave)
11	DIP SWITCH Indicator	To indicate different
12	Sensitivity	Ambient Audio Input for Music Sync
13	FAN	Ventilation fan
14	POWER Switch	Switches on and Off the Diode Emissions
15	Fuse	2A Fuse
16	Main Power Switch	On/Off Switch, Main Power Source.
17	Ground Pin	Ground screw

DIP FUNCTION SETTING

Dip switches #10 is to set 4 working modes: Sound, Auto, Slave/Master and DMX.

DMX mode have DMX control channel address for setting, Namely DMX Address, see the function setting chart. When dip switch 10# selected ON, Function of #1～#9 as below: 0=OFF 1=ON X=OFF or ON

DIP SWITCH CHART										FUNCTION
#1	#2	#3	#4	#5	#6	#7	#8	#9	#10	
X	X	X	X	X	X	X	X	0	1	SOUND ACTIVE
X	X	X	X	X	X	X	X	1	1	AUTO MODE
SET DMX ADDRESS									0	DMX/SLAVE

DIP Operating Instruction

When you turn on the laser for the first time, it will take some seconds to load the auto built-in shows

DIP ON	DIP OFF	FUNCTION
9,10 on	1-8 off	Auto mode
10 on	1-9 off	Sound Active mode
	1-10 off	DMX mode (with DMX controller)
	1-10 off	Master/Slave mode (without DMX Controller)

DMX-512 connection between fixtures

The fixture is equipped with 2-pin XLR sockets for DMX input and output. The sockets are wired in parallel. Only use a shielded twisted-pair cable designed for 3-pin XLR-plugs and connectors in order to connect the controller with the fixture or one fixture with another.

Occupation of the XLR-connection

DMX – output

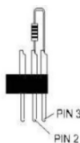
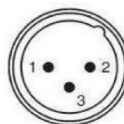
XLR mounting-sockets (rear view):



- 1 - Shield
- 2 - Signal (-)
- 3 - Signal (+)

DMX - output

XLR mounting-plugs (rear view):



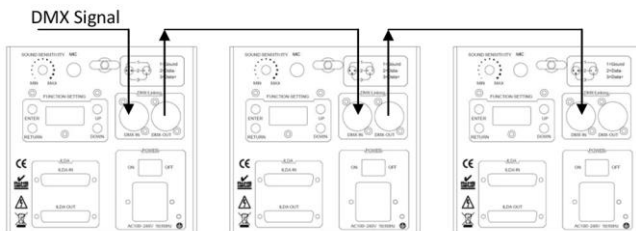
Caution:

At the laser fixture, the DMX-cable has to terminate with a terminator.

Contact your dealer to purchase ProX Cables DMX Terminator.

SKU: XC-DMX3PTR

Building a serial DMX-chain (DMX Mode)



- If you are using the standard DMX-controllers, you can connect the DMX-output of the controller directly with the DMX-input of the first fixture in the DMX-chain.
- Connect the DMX-output of the first fixture in the DMX-chain with the DMX-input of the next fixture. Always connect output with the input of the next fixture until all fixtures are connected.
- If you use a controller with 5 pins DMX connector, you need to use a 5 to 3 pins adapter
- Connect the fixture together in a daisy chain by DMX XLR plug cable from the output of the fixture to the input of the next fixture. The cable cannot be branched or split to a Y cable. DMX 512 is a very high speed signal. Inadequate or damaged cables, soldered joints or corroded connectors can easily distort signal and shut down the system.
- Each fixture needs to have a DMX address to receive the data from the controller. The DMX address number which could be read from rear panel of each fixture is between 001-512
- The end of the DMX 512 chain should be terminated to reduce signal errors.

Instruction for DMX channels

Channel	Function	Value	Description
CH1	Mode	0~69	Cut off
		70~139	Sound active
		140~209	Automatic
		210~255	manual
CH2	pattern selection	0~33	static pattern
		34~255	dynamic pattern
CH3	Vertical move	0~160	Manual control
		161~190	Automatic from up to down
		191~220	Automatic from down to up
		221~255	Automatic up and down
CH4	Horizontal move	0~160	Manual control
		161~190	Automatic from left to right
		191~220	Automatic from right to left
		221~255	Automatic left and right
CH5	Scale	0~2	No scale
		3~92	manual
		93~146	Automatic from small to big
		147~200	Automatic from big to small
		201~255	Automatic big and small
CH6	Vertical stretch	0~150	Manual stretch
		151~255	Automatic stretch
CH7	Horizontal stretch	0~150	Manual stretch
		151~255	Automatic stretch
CH8	Rotation	0~180	manual rotation
		181~217	Automatic clockwise rotation
		218~255	Automatic counterclockwise rotation
CH9	Strobe	0~255	8 step strobe speed (0-255)/30
CH10	Display	0~69	normal
		70~139	Dot and line
		140~209	section display
		210~255	Dot display
CH11	color	0~255	section display
CH12	Reset	0~255	>200 reset

TROUBLE SHOOTING

1. If the power indicator is off the laser doesn't work, please check the Power Cord, fuse and power supply.
2. In Stand-Alone operation, if the power supply indicator is ON and sound active indicator is OFF, but the laser doesn't work.
 - The sound may be too small and cannot activate the laser running, please increase the music volume or increase sound sensitivity on rear panel.
 - Please check if unit has been set up in slave mode, or DMX mode.
3. In Master-Slave operation, if slave fixtures don't run;
 - Make sure there's only one master in the chain, and the others are set in Slave mode.
 - Make sure to use a good quality DMX and Power Cables to run the chain.
4. In DMX operation, if the unit can't be controlled by the DMX console, but the DMX signal indicator on the item is flashing, Please make sure the DMX console and fixture have the same channel.

After trying the above solution you still cannot sort out the problem, please contact your Dealer or UNO LASER for service.

Preliminary warning notices

1. Please use this device only according to these operating instructions.
 2. Do not use the device if there are any visible damages on housing, connector panels, power supplies or power cords.
 3. Never look directly into the light source of a laser projector. Danger of damage to the eyes or even blindness in extreme circumstances!
 4. Do not operate the device at high humidity, in the rain or in dusty environments.
 5. Protect device against dripping or splashing water. Do not place any liquid filled containers near to this device.
- Any warranty claims are void if the warranty label is removed or tampered with in any way.

All information provided in this manual is subject to change without notice.



Please register your new purchase with us for your warranty with
Uno Laser within 30 days of your purchase.

<http://warranty.ProXdirect.com>

Our Products and You

Year after year, we are continuously blown away by the amazing productions we see happening around the world with ProX Gear! We especially want to thank all our dealers, and all our seriously talented customers who choose ProX, for your support and creativity!

Be sure to tag us on social media like facebook, twitter and instagram, or send us your best images of you and your favorite ProX Gear to our website for all the world to see!

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